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Form PTO-1449 U.S. Department of Commerce  
(Rev. 8-83) Patent and Trademark Office

Atty. Docket No.: 0756-1896

Serial No. 09/197,767

## INFORMATION DISCLOSURE STATEMENT

Applicants: Hisashi OHTANI, et al.

Filing Date: November 23, 1998

Group: 2814

(Use several sheets if necessary)

## U.S. PATENT DOCUMENTS

Examiner Initial	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (if approp.)
PC	3,982,820	09/28/76	Hattori et al.			
PC	4,640,583	02/03/87	Hoshikawa et al.			
PC	4,796,979	01/10/89	Tsuboyama			
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PC	4,932,757	06/12/90	Hanyu et al.			
PC	5,083,855	01/28/92	Clark et al.			
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PC	5,132,676	07/21/92	Kimura et al.			
PC	5,189,540	02/23/93	Nakamura et al.			
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	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
PC	6-40931	05/31/94	Japan			Abstract	
PC	2-503360	10/11/90	Japan			Abstract	
PC	9-211462	08/15/97	Japan			Abstract	
PC	7-13143	01/17/95	Japan			Abstract	
PC	6-331948	12/02/94	Japan			Abstract	
PC	6-347807	12/22/94	Japan			Abstract	
PC	6-337418	12/06/94	Japan			Abstract	

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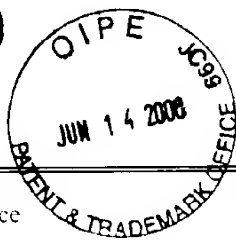
PC	A.D.L. Chandani, et al., "ANTIFERROELECTRIC CHIRAL SMECTIC PHASES RESPONSIBLE FOR THE TRISTABLE SWITCHING IN MHPOBC," Tokyo Inst. Of Tech., June 12, 1989, pp. 34-37.
PC	Michio Shimizu, et al., "CHARACTERISTIC OF A NOVEL LIQUID CRYSTAL CELL WITH MIXTURE OF FLC AND U.V. CURABLE RESIN," Mol. Cryst. Liq. Cryst., Overseas Publishers Association, Vol. 263, 1995, pp. 585-587.

Examiner PHAT X A.

Date Considered 6/15/01

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Examiner Initial	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (if approp.)
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P	5,469,281	11/21/95	Katakura et al.			
P	5,473,449	12/05/95	Takemura et al.			

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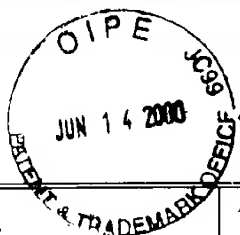
	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
P	6-337405	12/06/94	Japan			Abstract	
P	6-301039	10/28/94	Japan			Abstract	
P	6-301015	10/28/94	Japan			Abstract	
P	6-289372	10/18/94	Japan			Abstract	
P	6-242409	09/02/94	Japan			Abstract	
P	6-214218	08/05/94	Japan			Abstract	
P	6-186533	07/08/94	Japan			Abstract	

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Examiner *P. J. A. A.*Date Considered *6/15/01*

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	5,638,194	06/10/97	Yamada et al.			
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5-045636	02/26/93	Japan			Abstract
4-362918	12/15/92	Japan			Abstract
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Examiner *HAZ*Date Considered *6/14/00*

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						Yes	No
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pc	63-198024	08/16/88	Japan			Abstract	
pc	64-55527	03/02/89	Japan			Abstract	
pc	01-120532	05/12/89	Japan			Abstract	
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pc	WO 88/08552	11/03/88	WIPO			English	

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JE	5,592,318	01/07/1997	Majima et al.			
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Examiner *JE*Date Considered *1/15/01*

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	5,575,706	11/19/1996	Tsai et al.			
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	5,807,165	09/15/1998	Uzoh et al.			

Examiner *J. H. S. K. S.*Date Considered *11/15/98*

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